

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

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COMPLETE IF KNOWN

Application Number 09/469,485

Filing Date December 22, 1999

First Named Inventor Q. Zhao et al.

Group Art Unit 1648

Examiner Name Foley

Attorney Docket Number 20369Y

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OTHER NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
BL	✓	Mimms, et al. "Second Generation assays for the detection of antibody to HbsAg using recombinant DNA-derived HbsAg". J. VIRAL METHODS 25: 1989, Pg. 211-232.
	✓	Tung, et al. "Characterization of Recombinant Hepatitis B Surface Antigen Using Surface Plasmon Resonance". J. PHARMACEUTICAL SCIENCES 87: 1998, Pg. 76-80.
	✓	Lohman, et al. "Molecular Characterization and Structural Modeling of Immunoglobulin Variable Regions from Murine Monoclonal Antibodies Specific for Hepatitis B Virus Surface Antigen". MOLECULAR IMMUNOL 30: 1993, Pg. 1295-1306.
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✓	✓	Ubuka, T. "Protein Disulfide Isomerase-Catalyzed Renaturation of Ribonuclease A Modified By S-Thiolation With Glutathione and Cysteine". BIOCHEM MOL BIOL INT. 38(6): 1996, Pg. 1103-10.
		Valenzuela, et al. "Nucleotide sequence of the gene coding for the major protein of hepatitis B virus antigen". NATURE 280: 1979, Pg. 815-819. DUPLICATE
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	✓	Miyanochara, A., et al. "Expression of hepatitis B surface antigen gene in yeast". PNAS USA 80(1): 1985, Pg. 1-5.
	✓	Wampler, et al. "Multiple chemical forms of hepatitis B surface antigen". PROC. NAT. ACAD. SCI. 82: 1985, Pg. 6830-6834.
	✓	Mishiro, S., et al. "A 49,000-Dalton Polypeptide bearing all antigenic determinants and full immunogenicity of 22-nm Hepatitis B surface antigen particles". J. IMMUNOLOGY 124: 1980, Pg. 1589 - 1593.
	✓	Chen, et al. "Discontinuous epitopes of hepatitis B surface antigen derived from a filamentous phage peptide library". PNAS 93: 1996, Pg. 1997-2001.
	✓	Musiol, et al. "Redox-active bis-cysteiny peptides. I. Synthesis of cyclic cysteinyl peptides by conventional methods in solution and on solid supports". BIOPOLYMERS 34: 1994, Pg. 1553-1562.
✓	✓	Moroder, et al. "Oxidative folding of cysteine-rich peptides vs. Regioselective cysteine pairing strategies". BIOPOLYMERS 40: 1996, Pg. 207-234.

Examiner Signature

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Group Art Unit	1648
Examiner Name	Foley
Attorney Docket Number	20369Y

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Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
BE	✓	Qiu, et al. "Identification and Characterization of a C(K/R) TC Motif as a Common Epitope Present in All Subtypes of Hepatitis B Surface Antigen". J. IMMUNOL 156: 1996, Pg. 3350-3356.
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	✓	Tleugabulova, D. "Sodium Dodecylsulfate Polyacrylamide Gel Electrophoresis of Recombinant Hepatitis B Surface Antigen Particles" JOURNAL OF CHROMATOGRAPHY B 707 1998, PG. 267-273.
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	✓	Bruce, S. A. et al., "Mutations of Some Critical Amino Acid Residues in the Hepatitis B Virus Surface Antigen" JOURNAL OF MEDICAL VIROLOGY 46:157 1995 PG 157-161.
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	✓	Dreesman, G. R., et al., "Synthetic Hepatitis B Surface Antigen Peptide Vaccine" ADV EXP MED BIOL. 185, 1985, PG. 129-137.
	✓	Luengrojanakul, P. et al., "Common and Subtypic Determinants of Hepatitis B Surface Antigen Particles: Susceptibility to Reduction and/or Alkylation Evaluated with Monoclonal Antibodies" JPN J EXP MED 60 (5), 1990, PG. 253-261.
	✓	Antoni, B. A. et al., "Site-Directed Mutagenesis of Cysteine Residues of Hepatitis B Surface Antigen Analysis of Two Single Mutants and the Double Mutant" EUR J BIOCHEM 222(1) 1994 pg. 121-127
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	✓	Antoni, B. A. et al. "Site Directed Mutagenesis of the Hepatitis B Surface Antigen Gene Creation of a Free-Sulphydryl Group and Modification of the Protein in the 22NM Particle Structure" J MED VIROL 21(4) 1987 ABSTRACT 150

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B. A. Antoni

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BK	✓	Mangold, C. M. et al., "Secretion and Antigenicity of Hepatitis B Virus Small Envelope Proteins Lacking Cysteines in the Major Antigenic Region" VIROLOGY 211(2) PG. 535-543.
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	✓	Ionescu-Matiu, I. et al., "Epitopes Associated With A Synthetic Hepatitis B Surface Antigen Peptide" J. IMMUNOL. 130 1983 PG. 1947-1952.
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Examiner Signature

Bryan Campbell

Date Considered

6/26/96

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